

# Cypress™

## Cypress Tech Talk

February 26, 2019



**MITRE**

The Office of the National Coordinator for  
Health Information Technology



**CMS**  
CENTERS FOR MEDICARE & MEDICAID SERVICES

# Agenda

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- Software Updates
  - Overview bugs addressed in 4.0.2 patch release
- Recent Issues
  - Record Sample Bugs: CYPRESS-1619, CYPRESS-1627, CYPRESS-1629
- Cypress Versions
  - Bundle Retirement Schedules
- Open Discussion
- Contact Information

## Software Updates

# Bugs addressed in 4.0.2 patch release

- An “Assessment, Performed” Result should not be reported in a nested Result Template. ([CYPRESS-1498](#), [CYPRESS-1544](#))
- ‘Randomized’ patient birthdate can cause calculation errors. ([CYPRESS-1503](#))
- Confusing display of Direct Reference Codes in “C4 Filter Tests.” ([CYPRESS-1533](#))
- Use updated ‘Related To’ template instead of ‘Fulfills’ for C1 Record Sample test. ([CYPRESS-1537](#))
- Strictly enforce the existence of a code-negation pair within the same entry for C1 Record Sample verification. ([CYPRESS-1538](#))
- Do not export patients using the ‘Other’ code 2131-1. ([CYPRESS-1539](#))
- An id not required in the Encounter Performed Act template in Quality Reporting Document Architecture (QRDA) Category I R5. ([CYPRESS-1541](#))

# Software Updates

## Bugs addressed in 4.0.2 patch release

Resources   Tech Talks   Release Notes   **Future Releases**   FAQ

### Cypress v4.0.2

The Cypress 4.0.2 patch is scheduled for released on 1/31/18. Changelog for the release is below

**Cypress Bugs Addressed**

- An "Assessment, Performed" Result should not be reported in a nested Result Template. ([CYPRESS-1498](#), [CYPRESS-1544](#))
- 'Randomized' patient birthdate can cause calculation errors. ([CYPRESS-1503](#))
- Confusing display of Direct Reference Codes in "C4 Filter Tests." ([CYPRESS-1533](#))
- Use updated 'Related To' template instead of 'Fulfills' for C1 Record Sample test. ([CYPRESS-1537](#))
- Strictly enforce the existence of a code-negation pair within the same entry for C1 Record Sample verification. ([CYPRESS-1538](#))
- Do not export patients using the 'Other' code 2131-1. ([CYPRESS-1539](#))
- An id not required in the Encounter Performed Act template in QRDA Category I R5. ([CYPRESS-1541](#))

CYPRESS Issue Tracker / CYPRESS-1533

### C4 Filter does not display correct code or value set for Problems

Edit   Comment   Assign   More   Open   In Progress (2)   Workflow

**Details**

Type: Bug/Issue   Status: **IN PROGRESS** (View Workflow)

Priority: Moderate   Resolution: Unresolved

Labels: [KnownBug4.0.1](#)

**Description**

We are going through certification in just a few hours and are seeing the following filter criteria for C4:

Problems SNOMEDCT codes in Congenital absence of cervix (disorder) (code: drc-2aee01847828ef298f92805dcf74e47c73f590a1ce12a00cedb235f1e691e47e)

My assumption is that this is happening because the code is not contained in a value set but rather as a cql "code" element as follows:

code "Congenital absence of cervix (disorder)": '37687000' from "SNOMEDCT:2017-09"

Search   Save as   Share   Ex

labels = KnownBug4.0.1   Search

Order by

- [CYPRESS-1541](#) File failed import error for ...
- [CYPRESS-1537](#) Cypress is still expecting t...
- [CYPRESS-1533](#) C4 Filter does not display ...
- [CYPRESS-1504](#) C1 Test error - QRDA Cat I ...
- [CYPRESS-1503](#) Multiple QRDA files for on...

CYPRESS Issue Tracker / CYPRESS-1541

### File failed import error for 2019 eCQMs

Edit   Comment   Assign   More   Open   In Progress (2)   Workflow

**Details**

Type: Bug/Issue   Status: **IN PROGRESS** (View Workflow)

Priority: Moderate   Resolution: Unresolved

Labels: [KnownBug4.0.1](#)   [QRDA-I](#)

Measure Type: EH

**People**

Assignee:

Reporter:

Votes:

## Recent Issue

# Record Sample Bugs in 4.0.2 patch release

CYPRESS Issue Tracker / CYPRESS-1619

### Immunization, administered not complete for Record Sample test

[Export](#)

**Details**

Type: Bug/Issue Status: IN PROGRESS

Priority: Moderate Resolution: Unresolved

Labels: KnownBug4.0.2 RecordSampleBug

**Description**

Duplication of issue on [google group](#) for tracking purposes.

Record Sample test for CMS 127v7 may include an Immunization, Administered data criteria. When this is correctly put into a file with the correct code and time recorded, it does not pass. Cypress is looking for an authorDatetime in an element for which there is no authorDatetime. There **shouldn't** be an authorDatetime because as the implementation guide indicates, the effectiveTime element is used for that the authorDatetime element in question.

**People**

Assignee: Lauren DiCristofaro

Reporter: Lauren DiCristofaro

Votes: 0 Vote for this issue

Watchers: 1 Start watching this issue

**Dates**

Created: 02/11/19 9:35 AM

Search [Save as](#) [Export](#) [Tools](#)

labels = KnownBug4.0.2 AND labels = RecordSampleBug [Search](#) Basic [Filter](#)

Order by [↑](#)

**CYPRESS-1629** 500 Server Error when loa...

**CYPRESS-1627** "C1 Execution: An internal ...

**CYPRESS-1619** Immunization, administere...

**CYPRESS Issue Tracker / CYPRESS-1629** 1 of 3 [Export](#)

### 500 Server Error when loading C1 Sample including STK-6

**Details**

Type: Bug/Issue Status: IN PROGRESS

Priority: Moderate Resolution: Unresolved

Labels: KnownBug4.0.2 RecordSampleBug Impact: Unable to open C1 Sample for CMS 105 (STK-6)

**People**

Assignee: Lauren DiCristofaro

Reporter: Alex Liu

Votes: 0

## Recent Issue

# 4.0.2 Record Sample Bugs

- [CYPRESS-1619](#): Immunization, Administered authorDatetime in Record Sample
- [CYPRESS-1627](#): Substance, Administered template not found in Record Sample submissions
- [CYPRESS-1629](#): Criteria (LDL-c) in CMS105v7 causes error when accessing Record Sample
- **Workaround:**
  - Only necessary if Record Sample Test is generated with problematic criteria
  - That data criteria may be swapped out for any other available data criteria option
  - May reach out to ATL to edit the test and swap this criteria
  - Search with [labels = KnownBug4.0.2 AND labels = RecordSampleBug](#) to find marked relevant bugs

# Cypress Versions

Version	Dates	Measures Supported
V 3.2.3	December 14, 2017	Support for the electronic clinical quality measures (eCQM) for the 2018 Reporting/Performance Period <b>*will be supported alongside Cypress v4</b>
<b>V4.0.1</b>	<b>October 11, 2018</b>	Support for the eCQMs for the 2019 Reporting/Performance Period Support for Clinical Quality Language (CQL) calculation
<b>V4.0.2</b>	<b>January 31, 2019</b>	

Bundle Version	Dates	Features
2017.0.3	April 24, 2018	<b>Cypress v3 only</b> "Z1 BH Adult" updated for CMS128v6
2017.0.4	September 25, 2018	<b>Cypress v3 only</b> Errata update to fix 'Download All Patients' feature when 2017.0.3 and 2017.0.2 are installed simultaneously
2018.0.1	July 26, 2018	<b>Cypress v4 only</b> CQL-based measures released in 2018 for the 2019 reporting year eCQM Value Sets as of 5/4/2018.
<b>2018.1.0</b>	<b>October 11, 2018</b>	<b>Cypress v4 only</b> CQL-based measures released in 2018 for the 2019 reporting year eCQM Value Sets as of 9/17/2018.

# What is in a Cypress Bundle?

- Cypress Bundles are used to populate a Cypress Database with the following information
  - eCQM specifications
    - For a specific CMS Annual Update
  - eCQM Value Set
    - For a specific CMS Annual Update (or CMS Value Set Addendum)
  - Master Patients
    - Manually created by the Cypress team
- Once a Bundle is loaded into the Cypress Database, it can be used to generate tests using the eCQM specifications and value sets in the selected bundle. These test will include randomized test patients based on the 'Master Patients' in the bundle

# When are Cypress Bundles released?

- For the CMS Annual Update:
  - The CMS Annual Update is usually published in May
  - A Cypress Bundle for the Annual Update is typically published in July
  - All version #'s for a specific Annual Update will start with year the Annual Update was released
    - e.g., 2018.x.x
- When CMS publishes an addendum release for the value sets:
  - For the last 2 years, CMS has published addendum value sets in September
  - Cypress has published update bundles in October
    - Versioning scheme starting in 2018
      - All version #'s using a specific set of value set will share the same second digit
        - 2018.0.x (using the value sets at the time of the Annual Update publication)
        - 2018.1.x (using the value sets at the time of the first addendum value set publication)
- If a bug is identified in Cypress test patients
  - Cypress will publish an updated bundle with updates to the test patients
  - This will result in incrementing the third digit of the Cypress bundle
    - e.g., 2018.1.1

# When should Cypress Bundles be retired?

- The eCQM specifications published in the CMS Annual Update are only used for a single reporting year
- For example, the eCQMs published by CMS in May 2017 will be used to evaluate clinical data captured during Calendar Year 2018
- The submission window for this data ends in the spring of the year following data collection
- Cypress bundles should not be used after the submission window for a specific Annual Update has closed

Reporting Period	2017	2018	2019	2020	2021
Annual Update	May 2016	May 2017	May 2018	May 2019	May 2020
Initial Bundle Release	July 2016	July 2017	July 2018	July 2019	July 2020
Bundle Versions	2016.x.x	2017.x.x	2018.x.x	2019.x.x	2020.x.x
Proposed Bundle Retirement	April 2018	April 2019	April 2020	April 2021	April 2022

# Why should Cypress Bundles be retired?

- The benefits of certification with an outdated bundle are limited as the Health IT system will need to be updated prior to reporting.
- Retiring old bundles is consistent with ONC's guidance
  - “We strongly encourage [Electronic Health Record] technology developers to update to the newest CQMs specifications as they become available since those updates include new codes, logic corrections and clarifications”

## #42 Question [06-13-042-1]

### What is the relationship between EHR certification and the annual CQM specification updates released by CMS?

ONC and CMS have received many questions related to this topic, which are reflected below. These responses are from both ONC and CMS.

Question 1: *When new versions of CQM specifications are released by CMS, do EHR technology developers need to seek retesting/recertification of their certified Complete EHR or certified EHR Module in order to keep its certification valid?*

ONC/CMS Response: No. The minimum version required for 2014 Edition certification is the version of CQM specifications released by CMS in December 2012.<sup>1</sup> EHR technology that has been issued a certification based on the December 2012 version will remain certified even when CMS releases new versions of CQM specifications.

We strongly encourage EHR technology developers to update to the newest CQMs specifications as they become available since those updates include new codes, logic corrections and clarifications. We also recommend EHR technology developers consider that other CMS programs (beyond the EHR Incentive Programs) and other private sector programs generally update CQMs on an annual basis. As a result, an EHR technology developer's customers continued ability to successfully participate and report in those other programs could be impacted if the CQM data generated by the EHR technology is based on older specification versions (and no longer accepted by the other programs).

<https://www.healthit.gov/faq/42-question-06-13-042-1-0>

# OPEN DISCUSSION

# Next Cypress Tech Talk

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- Tuesday, March 12, 2019 at 1pm ET
- To join online, visit:  
<https://meetings.cms.gov/orion/joinmeeting.do?MTID=98271705d4bc4ad148cf1e39d5c7408>
- To join via phone, dial: 1-877-267-1577
- Meeting Number: 998 084 717
- Meeting link, as well as a calendar event file, available at:
  - <https://www.healthit.gov/cypress/techtalks.html>

# Notes

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- **Completed Webinars will be posted on the Cypress Website on the Timeline Tab**
  - <https://www.healthit.gov/cypress/techtalks.html>
- **Send questions and feedback to the Cypress Talk List at**
  - [project-cypress-talk@googlegroups.com](mailto:project-cypress-talk@googlegroups.com)
- **Report bugs and issues to the Cypress JIRA at**
  - <https://oncprojecttracking.healthit.gov/support/browse/CYPRESS>